RINGKASAN

Kemukus merupakan komoditas obat dan rempah bernilai tinggi. Kemukus menjadi salah satu komoditas ekspor yang diminati masyarakat luar negeri seperti bangsa Eropa. Permasalahan yang ditemukan dalam pengembangan kemukus yaitu produktivitasnya yang masih rendah. Guna meningkatkan produksi kemukus maka perlu penggunaan bibit yang berkualitas. Pembibitan kemukus dapat dilakukan secara vegetatif menggunakan klon unggul yang didukung dengan penggunaan media tanam dan konsentrasi ZPT auksin yang tepat. Penelitian bertujuan untuk mengetahui media tanam dan konsentrasi ZPT auksin yang seusai untuk keberhasilan pembibitan stek stek batang kemukus.

Penelitian dilakukan di Desa Kalisalak Kecamatan Kebasen Kabupaten Banyumas. Penelitian dilakukan pada bulan Juli sampai September 2019 menggunakan rancangan factorial 3 x 4 yang disusun pada Rancangan Acak Kelompok. Faktor pertama yaitu media tanam (M) terdiri dari M0 (tanah + pupuk kotoran sapi), M1 (tanah + pupuk kotoran sapi + cocopeat), dan M2 (tanah + pupuk kotoran sapi + pasir). Faktor kedua konsentrasi ZPT yaitu A0 (0 ppm/tanpa ZPT), A1 (5.000 ppm), A2 (10.000 ppm) dan A3 (15.000 ppm). Data yang diperoleh dianalisis dengan analisis ragam pada taraf 5% dan 1% dan jika berpengaruh nyata, maka dilanjutkan dengan menggunakan uji Duncan Multiple Range Test (DMRT) taraf kesalahan 5%.

Hasil penelitian menunjukkan macam media berpengaruh nyata terhadap bobot kering tunas. Media (tanah + pupuk kotoran sapi (1:1)) menghasilkan bobot kering tunas tertinggi (0,04 gram). Penggunaan ZPT auksin efektif meningkatkan panjang tunas (45,63%), jumlah daun (30%), jumlah akar (72,41%), panjang akar (89,62%), bobot kering tunas (33,33%) dan bobot kering akar (50%) dibanding kontrol. Konsentrasi ZPT auksin 10.000 ppm menunjukkan paling sesuai dalam meningkatkan pertumbuhan stek batang kemukus. Terjadi interaksi antara media tanam dan konsentrasi ZPT auksin terhadap persentase stek hidup kemukus.

Penggunaan media tanam tanah + pupuk kotoran sapi (1:1) dan konsentrasi ZPT 10.000 ppm memberikan persentase stek hidup kemukus tertinggi sebesar 75%.

SUMMARY

Cubeb (Pipper cubeba L) is a high value medicinal and spice commodity. Cubeb become one of the export commodities that are of interest to foreign communities such as European nation. The problems found in cubeb cultivation is that the productivity is still low. In order to increase cubeb production it is necessary to use quality seeds. The cubeb nursery can done vegetatively using superior clones that are supported by use of planting media and the correct auxin ZPT concentration. Research aims to determine the appropriate planting media and auxin ZPT concentration for successful seeding of cubeb stem cuttings.

The research was conducted in Kalisalak Village, Kebasen District, Regency Banyumas. The research was conducted from July to September 2019 used factorial design 3 x 4 arranged in a randomized block design. The first factor is planting medium (M) consist of M0 (soil + cow manure), M1 (soil + cow manure + cocopeat), and M2 (soil + cow manure + sand). The second factor was the ZPT concentration, namely A0 (0 ppm / without ZPT), A1 (5.000 ppm), A2 (10.000 ppm) and A3 (15.000 ppm). The data obtained were analyzed by analysis of variance test at the 5% and 1% levels and if it has a significant effect, then continue with using the Duncan Multiple Range Test (DMRT) with an error rate of 5%.

The results showed that the media had a significant effect on shoot dry weight. The media (soil + cow manure (1: 1)) produced the highest shoot dry weight (0.04 grams). The use of ZPT Auxin effective can increasing on shoot length (45,63%), number of leaves (30%), number of roots (72,41%), root length (89,62%), shoot dry weight (33,33%) and root dry weight (50%) than control. The concentration of ZPT Auxin 10,000 ppm showed the most suitable in increasing the growth of cubeb stem cuttings. There was an interaction between the planting medium and the concentration of ZPT Auxin against the percentage of live cubes cuttings. The use of soil growing media + cow manure (1: 1) and a concentration of ZPT 10,000 ppm gave the highest percentage of live cubeb stem cutting 75%.